

DISTRIBUTIONAL RECORDS FOR THE COLORADO FLORA II.

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ABSTRACT.— Eight new records of vascular plants indigenous to North America and one significant range extension are reported for the flora of Colorado.

The following collections document new records for vascular plants as treated by Harrington (1954), Weber and Johnston (1976), and Weber and Wittman (1983). Herbarium citations follow the treatment by Holmgren and Keuken (Index Herbariorum, Ed. 6, 1974). We thank Noel Holmgren and Rupert Barneby for their expert aid in providing names for several of these collections.

Astragalus jejunus S. Watson. Moffat Co.: Vermillion Creek, 2.3 miles directly E of Vermillion Creek Gap, T10N R100W S33, 6800 ft, 8 Jun 1983, J. S. Peterson and K. Wiley-Eberle 83-141 (COLO, CS, RM). This site extends the known distribution south from Sweetwater Co., Wyoming, and east from Summit Co., Utah (Barneby 1964, Welsh and Moore 1965).

Astragalus nelsonianus Barneby. Moffat Co.: Powder Wash, 2 miles E-SE of the community of Powder Wash, T11N R97W S10, 6820 ft, 21 June 1983, J. S. Peterson and D. H. Wilken 83-232 (CS, NY). This site extends the known distribution south from Sweetwater Co., Wyoming (Barneby 1964).

Collomia grandiflora Dougl. ex Lindl. Rio Blanco Co.: 0.8 mile E-SE of jct of Cow Creek and West Branch, Cow Creek, T4S R94W S18, 2340 m, 8 July 1982, W. Kelley and S. Sigstedt 82-87 (COLO, CS). Garfield Co.: East Fork, Middle Stuart Gulch, 2.6 miles S of Rio Blanco Co. line, T4S R96W S32, 2438 m, 12 July 1982, R. Popp and M. Waters 82-368 (CS). These collections confirm the earlier report by Graham (1937) of the species in the Piceance Basin and extend the known distribution in Colorado north from Mesa Verde and Sleeping Ute Mt. in Montezuma Co. (Welsh and Erdman 1964;

W. A. Weber, West Slope Flora, unpubl. ms.).

Eriogonum acaule Nuttall. Moffat Co.: 2 miles NE of confluence of Shell Creek and Hells Canyon, T12N R99W S21, 6820 ft, 8 June 1983, J. S. Peterson and A. Deardorff 83-131 (COLO, CS). SE end of Cold Springs Mt., Co. Rd. 10, 2.2 miles NE of Co. Rd. 318, T9N R101W S5, 6100 ft, 4 June 1979, R. Hartman and B. E. Nelson 8847 (RM). These sites extend the known distribution south from Sweetwater Co., Wyoming.

Gentianella tortuosa Jones. Rio Blanco Co.: Cathedral Bluffs at head of Dry Gulch, T3S R99W S29, 2591 m, 2 September 1982, W. Baker and T. Naumann 82-329 (COLO, CS). Cathedral Bluffs, 3 miles SE of jct of Right and Middle forks, Tommys Draw, T3S R100W S13, 21 July 1982, W. Kelley and T. Naumann 82-149 (CS). These sites extend the known distribution east from Grand and Uintah cos., Utah.

Penstemon gibbensii R. Dorn. Moffat Co.: Brown's Park, 0.7 km S of Sterling Spring, 1707 m, 20 July 1978, J. S. Peterson et al. 1261 (CS, NY). This specimen compares well with the holotype (RM) in all respects and represents an extension south from the type locality in Sweetwater Co., Wyoming (Dorn 1982).

Sphaeromeria capitata Nuttall. Moffat Co.: Vermillion Bluffs, 3 miles NE of summit of Lookout Mt., T11N R98W S30, 7600 ft, 24 June 1983, J. S. Peterson and D. H. Wilken 83-301 (BRY, COLO, CS, RM, UTC). This site extends the known distribution south

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from Albany and Sweetwater cos., Wyoming (Holmgren et al. 1976).

Townsendia strigosa Nuttall. Moffat Co.: Dry Creek, 1.5 miles W of summit of Lookout Mt., T11N R99W S33, 6580 ft, 22 June 1983, J. S. Peterson and D. H. Wilken 83-287 (CS). This site extends the known distribution east from Uintah Co., Utah (Beaman 1957).

Trifolium andinum Nuttall. Moffat Co.: Vermillion Creek Gap, 1.5 miles SE of S entrance to Irish Canyon, T10N R101W S35, 6000 ft, 3 June 1983, J. S. Peterson and A. Deardorff 83-91 (COLO, CS). This site extends the known distribution east from Dagget and Summit cos., Utah (Welsh 1978).

LITERATURE CITED

- BARNEY, R. 1964. Atlas of North American *Astragalus*. Memoirs New York Botanical Garden 13(1):1-596.
- BEAMAN, J. 1957. The systematics and evolution of *Townsendia* (Compositae). Contrib. Gray Herbarium 183:1-151.
- DORN, R. 1982. A new species of *Penstemon* (Scrophulariaceae) from Wyoming. Brittonia 34:334-335.
- GRAHAM, E. 1937. Botanical studies in the Uinta Basin of Utah and Colorado. Annals Carnegie Museum 26:1-432.
- HARRINGTON, H. D. 1954. Manual of the plants of Colorado. Denver: Sage books.
- HOLMGREN, A. H., L. M. SCHULTZ, AND T. K. LOWERY. 1976. *Sphaeromeria*, a genus closer to *Artemisia* than to *Tanacetum* (Asteraceae: Anthemideae). Brittonia 28:255-262.
- WEBER, W. A., AND B. C. JOHNSTON. 1976. Natural history inventory of Colorado. 1. Vascular plants, lichens and bryophytes. University of Colorado Museum, Boulder.
- WEBER, W. A., AND R. WITTMANN. 1983. Additions to the flora of Colorado. IX. Phytologia 53:191-193.
- WELSH, S. L. 1978. Utah Flora: Fabaceae (Leguminosae). Great Basin Nat. 38:225-367.
- WELSH, S. L., AND J. A. ERDMAN. 1964. Annotated checklist of the plants of Mesa Verde, Colorado. BYU Sci. Bull., Biol. Ser. 4(4):1-32.
- WELSH, S. L., AND G. MOORE. 1973. Utah plants. Brigham Young Univ. Press, Provo, Utah.